

CLAIMS

1. An actuator, comprising a pair of yokes opposing to each other via a first specified space, a magnet fixed to at least one of said yokes, and a carriage holding a coil on one end thereof against said magnet via a second specified space and rocking about a rotary shaft, wherein said carriage comprises two coil fitting arms opposing to each other having stepped portions respectively formed on opposing sides thereof and at least one through-hole, piercing from bottom to top of said stepped portion, whose size is larger at the bottom than at the top, said coil disposed between said two coil fitting arms, and a holding member for securing said coil fitting arms, said through-hole and said coil.

2. The actuator of claim 1, wherein said holding member is formed of a resin-filled block.

3. The actuator of claim 1, wherein said stepped portions are respectively formed on the identical sides of said two coil fitting arms.

4. The actuator of claim 1, wherein a plurality of said through-holes are formed at each of said stepped portions.

5. The actuator of claim 1, wherein the sectional size

parallel to the bottom of said through-hole is gradually reduced from the bottom toward the top.

6. The actuator of claim 1, wherein the sectional area
5 parallel to the bottom of said through-hole is gradually reduced from the bottom toward the top.

7. The actuator of claim 1, wherein the sectional size
parallel to the bottom of said through-hole is gradually
10 reduced up to a specified point from the bottom and is constant from the specified point up to the top.

8. The actuator of claim 1, wherein the sectional area
parallel to the bottom of said through-hole is gradually
15 reduced up to a specified point from the bottom and is constant from the specified point up to the top.

9. The actuator of claim 1, wherein said through-hole is
formed at a boundary portion between said coil fitting arm
20 and said stepped portion.

10. The actuator of claim 2, wherein the resin is thermoplastic resin.

25 11. The actuator of claim 2, wherein the resin is

thermosetting resin.

12. The actuator of claim 2, wherein the resin is time-lapse setting resin.

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